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**Abstract**

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The present invention relates to polyethers which are obtainable from 1-butene oxide and an alcohol using a double metal cyanide compound as a catalyst and have a content of unsaturated components of 6 mol% or more, to a process for preparing such a polyether and also to the use of a polyether according to the  
10 invention as a carrier oil or in a carrier oil formulation, in particular in additive packages for gasoline fuels, and furthermore also to carrier oil formulations and also to fuels comprising a polyether according to the invention.